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***Main research interests and scientific activities:***

- Research in the field of climate change impacts on forests, risk assessment and risk modelling, economics of close-to-nature forestry, eco-efficiency, transformation of forests, Decision Support Systems, Robust Decision Making, Bio-Energy, Green Investment Funds, restoration of degraded pasture land by afforestation in Central America
- Reviewer for scientific journals (Nature Communications, Forest Ecology and Management, ...)
- Representative of the University of Freiburg in the research network NFZ-forestnet (Nancy-Freiburg-Zurich forest research network) and in the European Forest Institute (EFI)
- Associate Editor “Annals of Forest Science” (ISI), PLoS ONE, Journal of Forest Economics; Scientific Advisory Board for the Swiss Forestry Journal (Schweiz. Zeitschrift f. Forstwesen)
- Editor-in-Chief of the German Journal of Forest Research (AFJZ)
- Coordinator of the EU - FP7 – project “Models for Adaptive Forest Management” (MOTIVE – large scale integrated project, 9 million € - 2009-2013).
- Coordinator of the Interreg Alpine Space project – Adaptation of Alpine Space Forests to Climate Change (MANFRED, 3.3 million € 2010-2013).
- Coordinator of several projects related to Climate Change adaptation of forests, e.g. in Serbia, Costa Rica
- Associate Correspondent (correspondant associé) of the Agricultural Academy of France (Académie d’Agriculture de France)

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## 1. Publications in reviewed Journals (ISI) (selection 2023-2013)

Baumbach, L., Hickler, T., Yousefpour, R., Hanewinkel, M. (2023). High economic costs of declined carbon sink and habitat loss in Central American forests. *Nature Communications* (2023)14:2043. doi.org/10.1038/s41467-023-37796-z

Zamora, JC, Hanewinkel, M., Yousefpour, R. (2023). Robust management strategies promoting ecological resilience and economic efficiency of a mixed conifer-broadleaf forest in Southwestern Germany under the risk of severe drought. *Ecological Economics* 209 (2023) 107825. doi.org/10.1016/j.ecolecon.2023.107825

Bourke, R., Yousefpour, R., Hanewinkel, M. (2023) Under storm risk, economic productivity of Norway spruce (*Picea abies* (L.) H. Karst) in monoculture shows sharper decline than in mixture with European beech (*Fagus sylvatica* L.) *Annals of Forest Science* (2023) 80:19 doi 10.1186/s13595-023-01182-y

Pinnschmidt, A., Yousefpour, R., Nölte, A., Murillo, O., Hanewinkel, M. (2023) Tropical mixed-species plantations can outperform monocultures: comparing economic and carbon sequestration performance. *Ecological Economics* (in press.).

Bréteau-Amores, S., Yousefpour, R., Hanewinkel, M., Fortin, M., (2023) Forest adaptation strategies to reconcile timber production and carbon sequestration objectives under multiple risks of extreme drought and windstorm events. *Ecological Economics* (accepted). Available at SSRN: <https://ssrn.com/abstract=4154872> or <http://dx.doi.org/10.2139/ssrn.4154872>

Pinnschmidt, A., Yousefpour, R., Nölte, A., Murillo, O., Hanewinkel, M. (2022) Economic potential and management of tropical mixed-species plantations in Central America. *New Forests* doi.org/10.1007/s11056-022-09937-7

Noelte, A., Cifuentes, M., Murillo, O., Yousefpour, R., Piotta, D., Hanewinkel, M. (2022). Broad-scale and long-term forest growth predictions and management for native, mixed species plantations and teak in Costa Rica and Panama. *Forest Ecology and Management* 520 (2022) 120386. <https://doi.org/10.1016/j.foreco.2022.120386>

Kramer, K., Bouriaud, L., Feindt, P., van Wassenae, L., Glanemann, N., Hanewinkel, M., van der Heide, M., Hengeveld, G., Hoogstra, M., Ingram, V., Levermann, A., Lindner, M. Matyas, C., Mohren, F., Muys, B., Nabuurs, G-J., Palahi, M., Polman, N., Reyer, C., Schulze, E-D., Seidl, R., de Vries, W., Werners, S., Winkel, G., Yousefpour, R. (2022). Roadmap to develop a stress test for forest ecosystem services supply. *Cell One Earth* 5: 25-34 – <https://doi.org/10.1016/j.oneear.2021.12.009>

Baltensweiler, A., Walthert, L., Hanewinkel, M., Zimmermann, S., Nussbaum, M. (2021). Machine learning based soil maps for a wide range of soil properties for the forested area of Switzerland. *Geoderma Regional* 27 (2021) e00437. <https://doi.org/10.1016/j.geodrs.2021.e00437>

Zamora-Pereira, J.C., Yousefpour, R., Cailleret, M., Bugmann, H., Hanewinkel, M (2021). Magnitude and timing of density reduction are key for the resilience to severe drought in conifer-broadleaf mixed forests in Central Europe *Annals of Forest Science* (2021) 78:68. <https://doi.org/10.1007/s13595-021-01085-w>.

Baumbach, L., Warren, D., Yousefpour, R., Hanewinkel, M. (2021). Climate change may induce connectivity loss and mountaintop extinction in Central American forests. *Communications Biology* (2021) 4:869 | <https://doi.org/10.1038/s42003-021-02359-9>

Bottero, A., Forrester, D., Cailleret, M., Kohnle, U., Gessler, A., Michel, D., Bose, A., Bauhus, J., Bugmann, H., Cuntz, M., Gillerot, L., Hanewinkel, M., Levesque, M., Ryder, J., Sainte-Marie, J., Schwarz (formerly Sohn), J., Yousefpour, R., Zamora-Pereira, J.C., Rigling, A.(2021). Growth resistance and resilience of mixed silver fir and Norway spruce forests in central Europe – contrasting responses to mild and severe droughts. *Global Change Biology* DOI: 10.1111/gcb.15737.

Palahí, M., Valbuena, R., Senf, C., Acil, N., Pugh, T.A., Sadler, J., Seidl, R., Potapov, P., Gardiner, B., Hetemäki, L., Chirici, G., Francini, S., Hlásny, T., Lerink, B., Olsson, H., González Olabarria, J., Ascoli, D., Asikainen, A., Bauhus, J., Berndes, G., Donis, J., Fridman, J., Hanewinkel, M., Jactel, H., Lindner, M., Marchetti, M., Marušák, R., Sheil, D., Tomé, M., Trasobares, A., Verkerk, P., Korhonen, M., Nabuurs, G.-J. (2021). Concerns about reported harvested area and biomass loss in European forests. *Nature* volume 592, pages E15–E17(2021)

Cowie, A, Berndes, G., Bentsen, N., Brandao, M., Cherubini, F., Egnell, G., George, B., Gustavsson, L., Hanewinkel, M., Harris, Z., Johnsson, F., Junginger, H., Kline, K., Koponen, K., Koppejan, J., Kraxner, F.,

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- Hagen, R., Kühn, N., Hanewinkel, M., Suchant, R. (2021). Number and height of unbrowsed saplings are more appropriate than the proportion of browsed saplings for predicting silvicultural regeneration success. *Annals of Forest Sciences* (2021) 78:21. doi.org/10.1007/s13595-021-01034-7
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- Sperlich, D., Nada-Sala, D., Gracia, C., Kreuzwieser, J., Hanewinkel, M., Yousefpour, R. (2020). Gains or Losses in Forest Productivity under Climate Change? The Uncertainty of CO<sub>2</sub> Fertilization and Climate Effects. *Climate* 2020, 8, 141; doi:10.3390/cli8120141
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